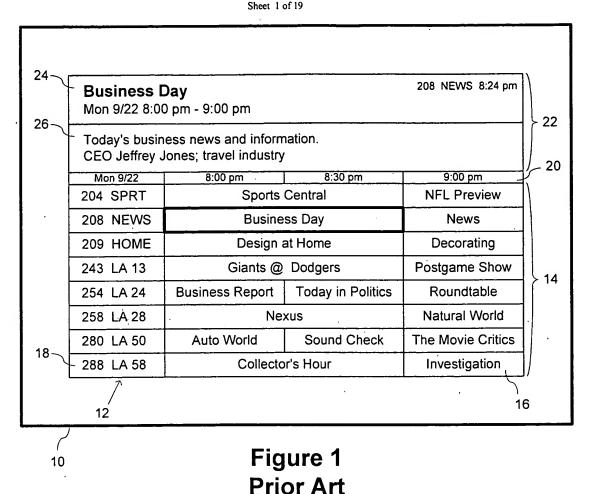
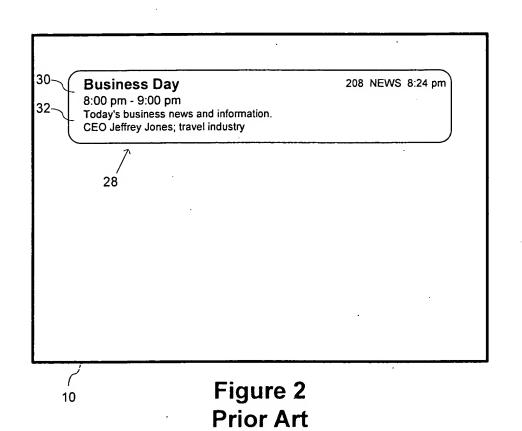
Inventors: Gil Gavriel DUDKIEWICZ et al. Attorney: Ronald Coslick – 051448-0209 FOLEY & LARDNER – (310) 277-2223





INTERACTIVE PROGRAM GUIDES PROVIDING PROGRAM SEGMENT
INFORMATION
Inventors: Gil Gavriel DUDKIEWICZ et al.
Attorney: Ronald Coslick - 051448-0209
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Sheet 2 of 19

Program identifier:			ier:	762645819.0405	
Program title: Bus			Bu	siness Day	
Type:	S	eries			
Génre:	N	lews			
Series description:				Today's business news and information	
Progra	m d	escri	ptio	n: CEO Jeffrey Jones; travel industry	
Chann	el:	New	s Ne	etwork	
Date:	09/	22/20	03		
Time:	8:0	0 pm		_	
Duratio	on:	60 m	nin	·	
Rating: General			al	·	
Language: Engli			Engli	ish	
Alterna	ite la	angu	age:	Spanish	
Closed	cap	otion)	Yes	
Audio type: Stereo					

Conventional program metadata

Figure 3 **Prior Art**

INTERACTIVE PROGRAM GUIDES PROVIDING PROGRAM SEGMENT
INFORMATION
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Program i	identifi	er:	762	6458	19.040	05				
Program (title:	Bus	sines	ss Da	y					
Program (descrip	otion	:	Toda	ıy's bu	sine	ess news	s an	d inform	ation
Channel:	News	s Net	wor	k			· · · · · · · · · · · · · · · · · · ·		-	
Date: 09	/22/20	03			-					
Time: 8:	00 pm		_							
Duration:	60 m	in								Drogram motodata
Rating:	Genera	al								Program metadata
Language	: En	glish								
Alternate	langua	ige:	s	panis	h					
Closed ca	ption:	Y	es							
Audio typ	e: Ste	егео							_	
Categorie	s: ne	ews,8	3; bı	ısines	s,9; in	ves	tment,8;	· ;		
Keywords	: Fe	deral	Re	serve	intere	est r	ates;			
Actors:										
Director:										· .

Program	identifier:	76	2645819.0	405	
Program	title: Bu	sine	ss Day		
Segment	identifier:	76	2645819.0	405.0004	
Segment	title: Ear	ning	s reports		
Segment	descriptio	n:	IBM, Dell	, Cisco; analyst comments	
Channel:	News Ne	two	rk .		
Date: 0	9/22/2003				
Time: 8:	22 pm	_			•
Duration:	8 min]			Sogmont motodata
Rating:	General	1			Segment metadata
Language	e: Englist	1			
Alternate	language:	5	Spanish		
Closed ca	aption:	es/			
Audio typ	e: Stereo				
Categorie	es: news	8; b	usiness,9;	earnings,10; technology,7;	
Keyword	s: IBM: D	ell; (Cisco; anal	yst;	
Actors:					
Director:					

Figure 4

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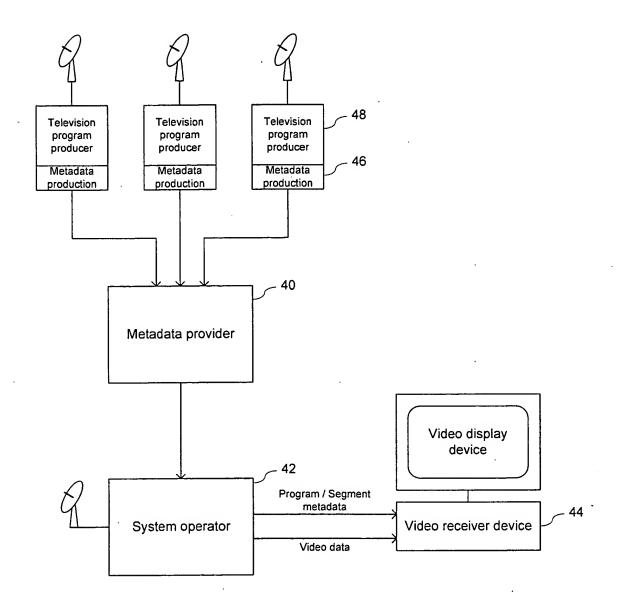


Figure 5

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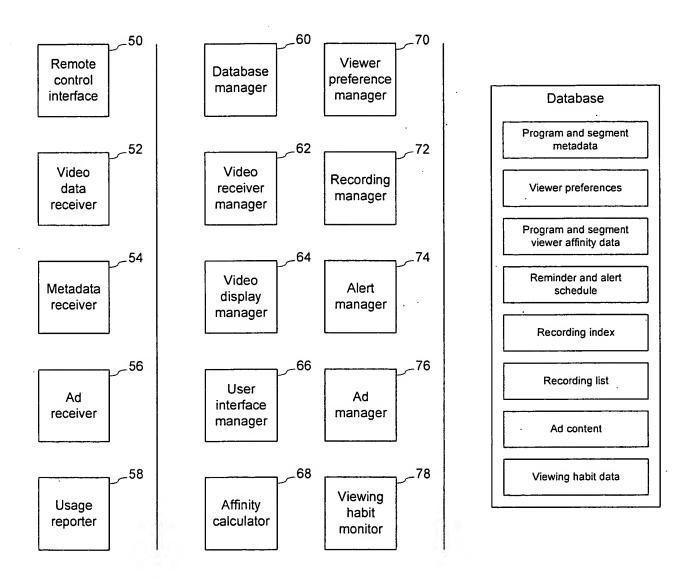


Figure 6

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User Command

Device Response

Display guide

- Retrieve metadata objects within a given time and channel range
- Assemble and display guide:
 - form program / segment grid
 - display cursor in current program / segment in grid
 - display program description in program window
 - display segment description in segment window

Move cursor

- Retrieve additional metadata objects and update grid, if necessary
- Display cursor in new program/segment in grid
- Update contents of program and segment windows

Select program or segment

- If the cursor is located on a current program or segment, tune to the channel of the program or segment
- If the cursor is on a future program or segment:
 - if the cursor is on a segment, display option to remind for whole program or segment only, and receive selection
 - schedule reminder for segment or program

Record

- If the cursor is on a current program or segment
 - if the cursor is on a segment, display option to record whole program or segment only and receive selection
 - begin recording
- If the cursor is on a future program or segment:
 - if the cursor is on a segment, display option to record whole program or segment only and receive selection
 - schedule recording
- If the cursor is on a program or segment has already aired and that is buffered
 - if the cursor is on a segment and the whole program is buffered, display option to store the whole program or segment only and receive selection
 - store whole program or segment as recorded content

Figure 7a

Inventors: Gil Gavriel DUDKIEWICZ et al. Attorney: Ronald Coslick - 051448-0209 FOLEY & LARDNER - (310) 277-2223 Sheet 7 of 19

User Command

Device Response

Filter

- Present user interface for selecting filtering criteria
- Receive filtering criteria
- Retrieve metadata objects based on filtering criteria
- Assemble and display filtered guide

Find more like this

- Retrieve program and segment metadata having categories, keywords, actors or directors in common with a program or segment on which the cursor is located
- Display information about the retrieved programs and segments OR
- Display user interface showing categories, keywords, actors and directors of the program or segment on which the cursor is located
- Receive input specifying which categories, keywords, actors and directors are of interest
- Retrieve program and segment metadata having the specified categories, keywords, actors or directors
- Display information about the retrieved programs and segments

Update preferences

 Update viewer preferences to reflect approval or disapproval of categories, keywords, actors or directors of a program or segment on which the cursor is located

OR

- Display user interface showing categories, keywords, actors and directors of the program or segment on which the cursor is located
- Receive input specifying which categories, keywords, actors and directors are approved or disapproved
- Update viewer preferences to reflect approval or disapproval of specified categories, keywords, actors or directors

Figure 7b

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Sta	gment: Ea art: 8:22 ration: 8 min		igs Rep	orts: IBI	M, De	ell, Cisco; ar	aly	st o	соп	iments
	/lon 9/22		8:0	0 pm	1	8:30	om			9:00 pm
204	4 SPRT			Spe	orts (Central				NFL Preview
20	8 NEWS			Bu	sine	ss Day			-	News
20	9 HOME		Design at Home						Decorating	
24	3 LA 13		Giants @ Dodgers						Postgame Show	
25	4 LA 24	E	Busines	s Rep	ort	Today in	Po	litic	cs	Roundtable
25	B LA 28		Nexus Natural World							
28	D LA 50		Auto	World		Sound (Che	eck		The Movie Critics
28	B LA 58	Collector's Hour Investigation								

Figure 8a

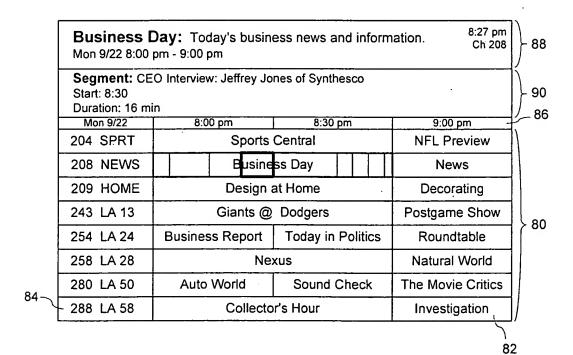
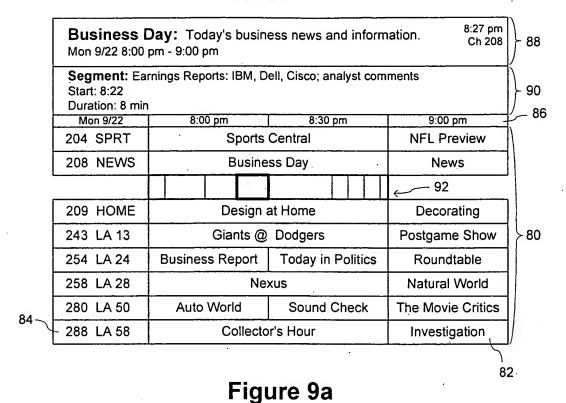


Figure 8b

Inventors: Gil Gavriel DUDKIEWICZ et al. Attorney: Ronald Coslick – 051448-0209 FOLEY & LARDNER – (310) 277-2223 Sheet 9 of 19



8:27 pm **Business Day:** Today's business news and information. Ch 208 88 Mon 9/22 8:00 pm - 9:00 pm Segment: CEO Interview: Jeffrey Jones of Synthesco Start: 8:30 90 Duration: 16 min 86 Mon 9/22 8:00 pm 8:30 pm 9:00 pm **204 SPRT** Sports Central **NFL Preview 208 NEWS Business Day** News 92 **209 HOME** Design at Home Decorating 243 LA 13 Giants @ Dodgers Postgame Show 80 254 LA 24 **Business Report** Today in Politics Roundtable 258 LA 28 Nexus Natural World 280 LA 50 Auto World Sound Check The Movie Critics 288 LA 58 Collector's Hour Investigation

Figure 9b

82

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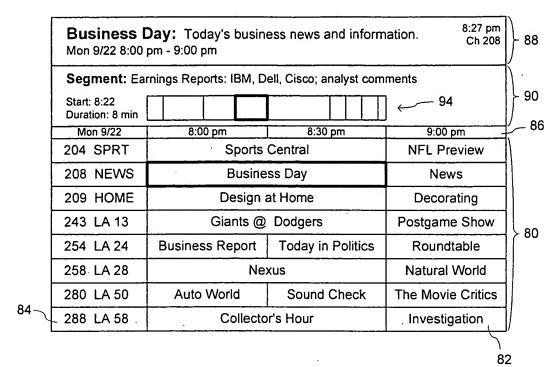


Figure 10a

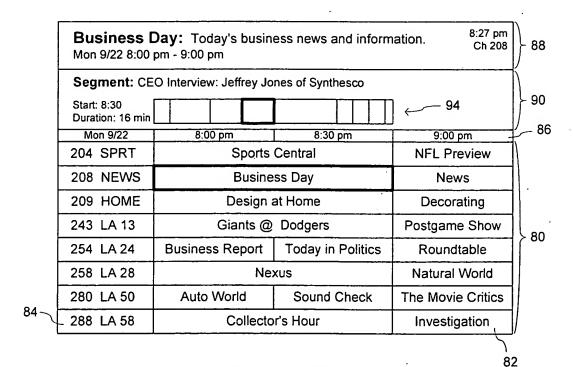
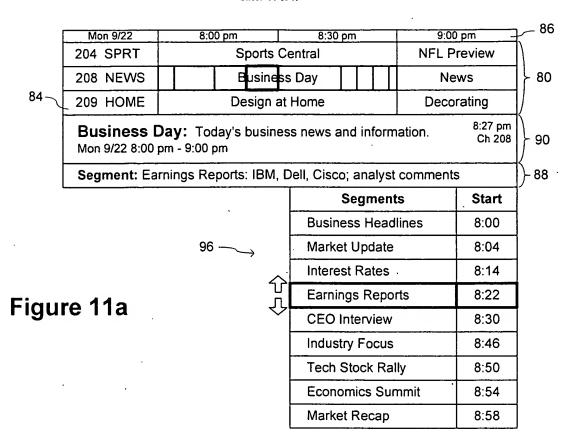
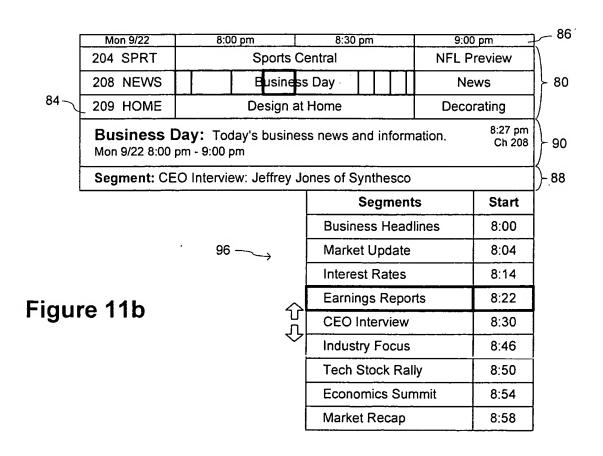


Figure 10b

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User Command

<u>Device Response</u>

Display banner

- Retrieve metadata objects for the current time period and channel
- Assemble and display the banner:
 - form segment fields
 - display cursor in the current segment field
 - display program description in the banner
 - display segment description in the banner

Move cursor

- Display cursor in new segment field
- display segment description of new segment

Select

 Schedule a reminder for the segment on which the cursor is located

Record

- Display option to record whole program or segment only and receive selection
 - if viewer selects record whole program, begin recording and store any buffered portion
 - if viewer selects record segment and segment is current, begin recording
 - if viewer selects record segment and segment is future, schedule recording
 - if viewer selects record segment and segment is buffered, store segment as recorded content

Figure 12a

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Inventors: Gil Gavriel DUDKIEWICZ et al.
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<u>User Command</u>

Device Response

Find more like this

- Retrieve program and segment metadata having categories, keywords, actors or directors in common with a segment on which the cursor is located
- Display information about the retrieved programs and segments
 OR
- Display user interface showing categories, keywords, actors and directors of the segment on which the cursor is located
- Receive input specifying which categories, keywords, actors and directors are of interest
- Retrieve program and segment metadata having the specified categories, keywords, actors or directors
- Display information about the retrieved programs and segments

Update preferences

 Update viewer preferences to reflect approval or disapproval of categories, keywords, actors or directors of a segment on which the cursor is located

OR

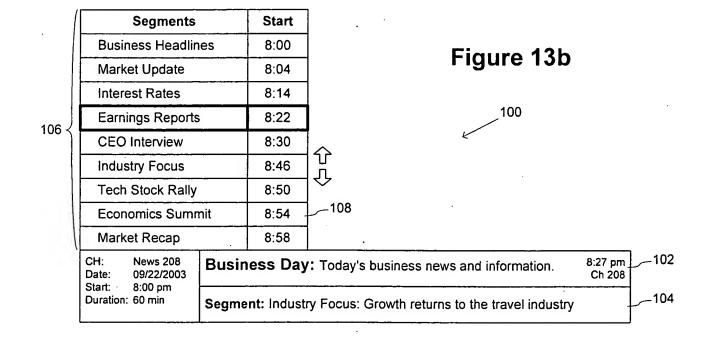
- Display user interface showing categories, keywords, actors and directors of the segment on which the cursor is located
- Receive input specifying which categories, keywords, actors and directors are approved or disapproved
- Update viewer preferences to reflect approval or disapproval of specified categories, keywords, actors or directors

Figure 12b

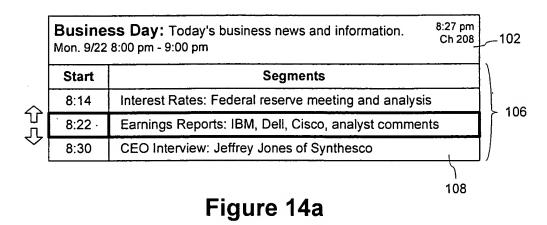
Inventors: Gil Gavriel DUDKIEWICZ et al. Attorney: Ronald Coslick – 051448-0209 FOLEY & LARDNER – (310) 277-2223

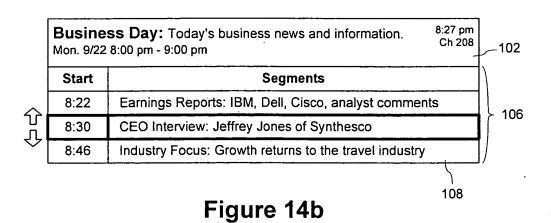
Sheet 14 of 19

		Segments		Start							
1	Busin	ness Headlir	nes	8:00	Figure 13a						
	Mark	et Update		8:04	Figure 13a						
	Intere	est Rates		8:14							
106 ≺	Earn	ings Reports	S	8:22	分 						
100	CEO	Interview		8:30	▽						
	Indus	stry Focus		8:46							
	Tech	Stock Rally		8:50							
	Econ	omics Sumi	nit	8:54	108						
	Mark	et Recap		8:58							
	CH: Date: Start:	Date: 09/22/2003		iess Day	7: Today's business news and information. 8:27 pm Ch 208						
	Duration	8:00 pm : 60 min	Segme	Segment: Earnings Reports: IBM, Dell, Cisco; analyst comments							



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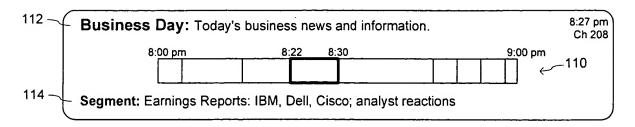


Figure 15a

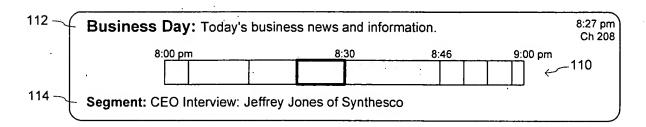
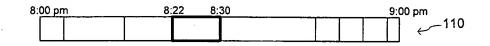
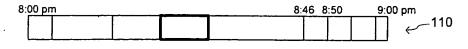


Figure 15b



114 ->> Earnings Reports: IBM, Dell, Cisco; analyst reactions

Figure 16a



114 -> Industry Focus: Growth returns to the travel industry

Figure 16b

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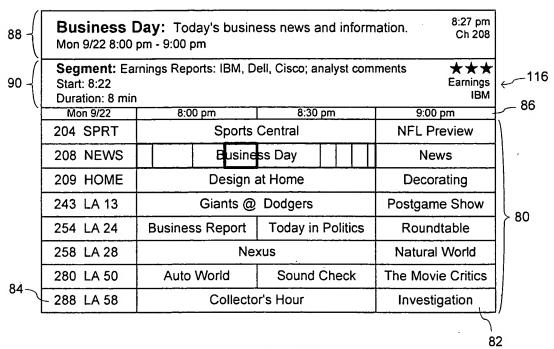


Figure 17a

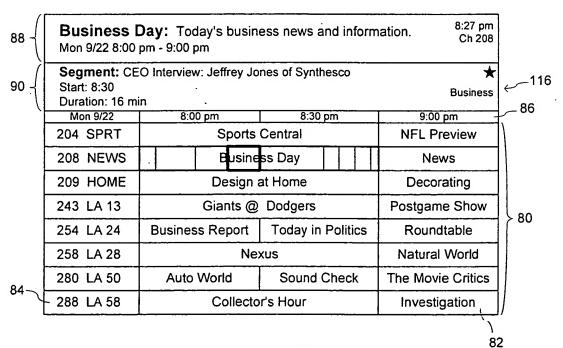


Figure 17b

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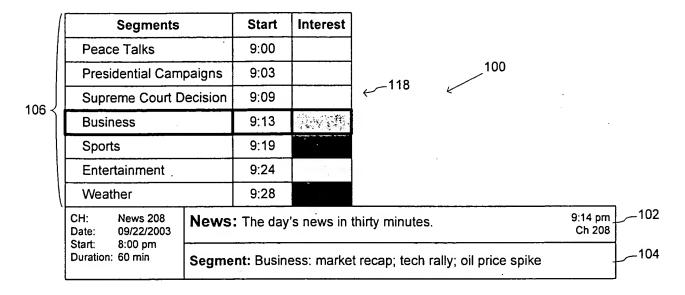


Figure 18

Find more like: Program: Business Da Segment: Earnings Re	← 120	
<u>Category:</u>	Keyword:	*
☐ News	122 IBM	
☑ Business	☑ Dell	
☐ Earnings	☑ Cisco	
☑ Technology		

Figure 19

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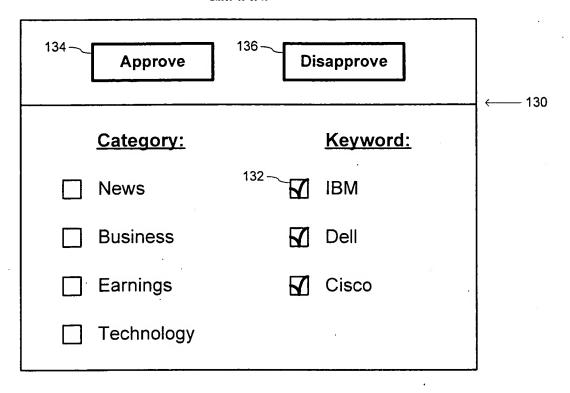


Figure 20a

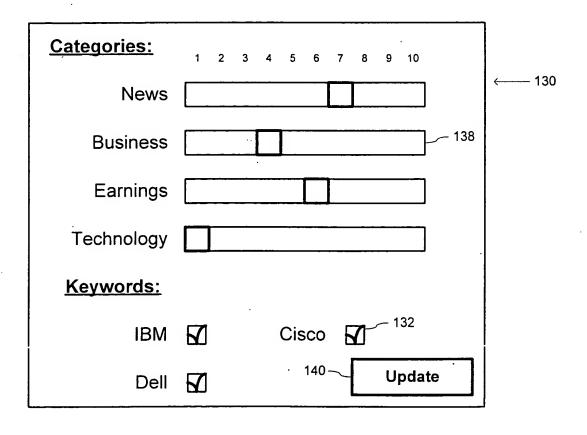


Figure 20b